## **CLAIMS**

1. Compounds of the formula (I):

in which:

G represents a bond or a divalent radical chosen from the groups g1,
 g2 and g3 below:

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• R<sup>1</sup> is chosen from hydrogen and an alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl, alkylcarbonyl or alkoxycarbonyl radical:

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R<sup>2</sup> and R<sup>3</sup>, which may be identical or different, are chosen, independently of each other, from a hydrogen atom, an alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl or heteroaryl radical and a radical -NRR';

R<sup>4</sup>. R<sup>5</sup> and R<sup>6</sup>, which may be identical or different, are chosen,

independently of each other, from a hydrogen atom and an alkyl,

alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl or heteroaryl radical;

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R and R', which may be identical or different, represent, independently
of each other, a hydrogen atom or a radical chosen from alkyl, alkenyl,
alkynyl, cycloalkyl, heterocycloalkyl, aryl and heteroaryl; or together

form, with the nitrogen atom that bears them, a heterocycle, or together form the double bond of an alken-1-yl radical;

- · Y represents an oxygen or sulfur atom; and
- Z represents -NH- or an oxygen atom;

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the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

2. Compounds according to Claim 1, in which the radical R<sup>2</sup> represents hydrogen,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

3. Compounds according to Claim 1 or Claim 2, in which the radical R<sup>3</sup> represents hydrogen,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

4. Compounds according to any one of the preceding claims, in which the radicals R<sup>4</sup> and R<sup>5</sup>, independently of each other, represent an alkyl radical,

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the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and optional oxidized forms, especially amine oxides, thereof, and the solvates and hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

5. Compounds according to any one of the preceding claims, in which the radical R<sup>6</sup> represents an aryl or heteroaryl radical,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and optional oxidized forms, especially amine oxides, thereof, and the solvates and hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

6. Compounds according to any one of the preceding claims, in which in which the thiazolyl radical is branched in position 3 or in position 4 of the piperidine nucleus,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and optional oxidized forms, especially amine oxides, thereof, and the solvates and hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

 Compounds according to any one of the preceding claims, in which the thiazolyl radical is branched in position 4 of the piperidine nucleus,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and optional oxidized forms, especially amine oxides, thereof, and the solvates and hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

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8. Compounds according to any one of the preceding claims, in which G represents the radical g1,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and optional oxidized forms, especially amine oxides, thereof, and the solvates and hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

Compounds according to any one of the preceding claims, in which
 G represents the radical g1 and Y represents an oxygen atom,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and optional oxidized forms, especially amine oxides, thereof, and the solvates and hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

10. Compounds according to any one of the preceding claims, in which the radicals R<sup>2</sup> and R<sup>3</sup> each represent a hydrogen atom, the radicals R<sup>4</sup> and R<sup>5</sup> represent, independently of each other, an alkyl radical, the radical R<sup>6</sup> represents an aryl or heteroaryl radical, the thiazolyl radical is branched in position 4 of the piperidine nucleus, and G represents the radical g1 in which Y represents an oxygen atom,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and optional oxidized forms, especially amine oxides, thereof, and the solvates and hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

11. Compounds according to any one of the preceding claims, in which R<sup>1</sup> represents an aryl radical, especially phenyl, substituted by one or more aryl and/or alkyl radicals

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the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and optional oxidized forms, especially amine oxides, thereof, and the solvates and hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

12. Compounds according to any one of the preceding claims, in which R<sup>1</sup> represents a biphenyl radical, optionally substituted by one or more alkyl radicals, preferably methyl, ethyl or propyl, and/or with a perhaloalkyl or perhaloalkoxy radical,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and optional oxidized forms, especially amine oxides, thereof, and the solvates and hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

13. Compounds according to any one of the preceding claims, in which G represents the radical g1, with Y representing an oxygen atom, R¹ represents a biphenyl radical, optionally substituted by one or more alkyl radicals, preferably methyl, ethyl or propyl, and/or a trifluoromethyl or trifluoromethoxy radical, the other substituents being as defined above;

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and optional oxidized forms, especially amine oxides, thereof, and the solvates and hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

- **14.** Compounds according to any one of the preceding claims, chosen from:
- {4-[4-(1,5-dimethyl-4-phenyl-1*H*-imidazol-2-yl)thiazol-2-yl]piperid-1-yl}(4'-trifluoromethylbiphenyl-2-yl)methanone;

- {4-[4-(1-ethyl-5-methyl-4-phenyl-1*H*-imidazol-2-yl)thiazol-2-yl]piperid-1-yl}(4'-trifluoromethylbiphenyl-2-yl)methanone;
- {3-[4-(1-ethyl-5-methyl-4-phenyl-1*H*-imidazol-2-yl)thiazol-2-yl]piperid-1-yl}(4'-trifluoromethylbiphenyl-2-yl)methanone;
- {4-[4-(1-ethyl-5-methyl-4-phenyl-1*H*-imidazol-2-yl)thiazol-2-yl]piperid-1-yl}(6-methyl-4'-trifluoromethoxybiphenyl-2-yl)methanone;
- {4-[4-(1-ethyl-5-methyl-4-(pyrid-3-yl)-1*H*-imidazol-2-yl)thiazol-2-yl]-piperid-1-yl}(4'-trifluoromethylbiphenyl-2-yl)methanone;
- {4-[4-(1-ethyl-5-methyl-4-(pyrid-2-yl)-1*H*-imidazol-2-yl)thiazol-2-yl]-piperid-1-yl}(4'-trifluoromethylbiphenyl-2-yl)methanone; and
- {4-[4-(1-ethyl-5-methyl-4-(pyrid-2-yl)-1*H*-imidazol-2-yl)thiazol-2-yl]-piperid-1-yl}(6-methyl-4'-trifluoromethoxybiphenyl-2-yl)methanone; the optical isomers thereof, oxidized forms, solvates and hydrates of these compounds;
- and also the possible pharmaceutically acceptable salts thereof with an acid, or the pharmaceutically acceptable prodrugs of these compounds.
  - 15. Process for the preparation of a compound according to any one of Claims 1 to 14, characterized in that a compound of the formula (II):

$$T-N \xrightarrow{S \\ NH_2} (II)$$

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in which T represents a labile protecting group, and  $\mathbb{R}^2$  is as defined in Claim 1,

is reacted with ethyl R<sup>3</sup>-bromopyruvate, in a polar solvent, in the presence of an excess of base, preferably an organic base, at a suitable temperature, for a period ranging from 1 to 40 hours and preferably between 4 and 18 hours,

so as to form the thiazolyl ring and give the compound of the formula (III):

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$$CH_3$$
 $R^3$ 
 $R^3$ 
(III),

in which T is as defined above, and R<sup>2</sup> and R<sup>3</sup> are as defined in Claim 1,

which compound of the formula (III) is then saponified with a base, of alkali metal or alkaline-earth metal hydroxide type, in polar medium, at room temperature, for a period ranging from 1 to 12 hours, so as to form the salt of the formula (IV):

$$T-N$$
 $S$ 
 $R^3$ 
 $(IV)$ 

in which T, R<sup>2</sup> and R<sup>3</sup> are as defined above, and M<sup>+</sup> represents the alkali metal or alkaline-earth metal cation derived from the base that is useful for the saponification reaction,

which compound of the formula (IV) is next hydrolysed and then/or esterified to a compound of the formula (V):

$$R^{2}$$
 OH  $R^{3}$   $R^{3}$   $(V)$ ,

in which R<sup>2</sup>, R<sup>3</sup> and T are as defined above,

which compound of the formula (V) is then converted to a corresponding amide of the formula (VI):

in which R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup> and T are as defined above, via the action of an amine of the formula (VIa):

$$H$$
 $R^5$ 
 $R^6$ 
 $R^6$ 
(VIa),

in which R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup> are as defined above,

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in the presence of a base, preferably an organic base, and a catalyst, in a polar aprotic solvent, at room temperature, for a period possibly ranging from 1 to 50 hours,

the compound of the formula (VI) then being used in a reaction for deprotection of the amine function of the piperidine ring, via the action of an organic or mineral acid, in dichloromethane or dioxane medium, at room temperature, for a period ranging from a few minutes to several hours, to give the compound of the formula (VII):

in which R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup> are as defined above,

which compound is then subjected to the action of a compound chosen from:

$$R^1-X$$
 ;  $R^1$   $X$  ;  $R^1$   $X$  ;  $R^1$   $X$   $Y$  and  $R^1$   $X$   $Y$ 

in which X represents a halogen atom, preferably chlorine, R<sup>1</sup>, Y and Z being as defined in Claim 1,

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in the presence of a base, preferably an organic base, and a catalyst, in a polar aprotic solvent, at room temperature, for a period possibly ranging from 1 to 50 hours,

to give the compound of the formula (VIII):

$$R^{1}$$
 $R^{2}$ 
 $R^{3}$ 
 $R^{4}$ 
 $R^{6}$ 
 $R^{6}$ 
 $R^{1}$ 
 $R^{1}$ 
 $R^{2}$ 
 $R^{3}$ 
 $R^{4}$ 
 $R^{6}$ 
 $R^{6}$ 

in which G, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup> are as defined above,

which is finally subjected to a cyclization reaction (formation of the imidazole ring), in the presence of a cyclizing agent, such as ammonium trifluoro-acetate, also acting as solvent, at a suitable temperature, for example in the region of 150°C, for a period generally of between 5 and 15 minutes,

to give the compound of the formula (I) as defined in Claim 1.

- 16. Pharmaceutical composition comprising a pharmaceutically effective amount of a compound of the formula (I) according to any one of Claims 1 to 14 or obtained via a process according to Claim 15, in combination with one or more pharmaceutically acceptable vehicles.
- 17. Use of a compound of the formula (I) according to any one of Claims 1 to 14 or obtained via a process according to Claim 15, for the preparation of a medicament for the treatment of diabetes-related hypertriglyceridaemia, hypercholesterolaemia and dyslipidaemia, and also for the prevention and treatment of obesity.